

Version: 7.0

Question: 1

Determine which of the statements is true about the root(s) of the following equation:

$$x^2 + \sqrt{2}x - 4 = 0$$

- A. There is only one real root which takes a positive value.
- B. There is only one real root which takes a negative value.
- C. There are two real roots, r_1 and r_2 , where r_1 is positive and: $r_1 = -0.5 r_2$
- D. There are two real roots, r_1 and r_2 , where r_1 is positive and: $r_1 = -2 r_2$

Answer: C

Question: 2

Solve the following equation for x:

$$12x + 10 = 3x - 8$$

- A. $x = -9/2$
- B. $x = -2$
- C. $x = 2$
- D. $x = 9/2$

Answer: B

Question: 3

When differentiating the product of two factors, u and v , the Product Rule can be used.

State the Product Rule.

A)

$$d(uv) = u \, du + v \, dv$$

B)

$$d(uv) = \frac{vu' - uv'}{v}$$

C)

$$d(uv) = u \, dv + v \, du$$

D)

$$d(uv) = u \, dv + v \, du$$

- A. Option A
- B. Option B

- C. Option C
- D. Option D

Answer: D

Question: 4

A function $f(x)$ is known for two values:

$$f(2) = 8 \text{ and } f(5) = 14.$$

Using linear interpolation estimate $f(3)$.

A)

$$9 \frac{1}{3}$$

B)

$$10$$

C)

$$11$$

D)

$$12$$

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Answer: B

Question: 5

Determine which of the options is equal to $\log(3) - 2\log(x+1)$.

A)

$$\log(2x + 1)$$

B)

$$\log\left(\frac{3}{2x + 1}\right)$$

C)

$$\log\left(3(x + 1)^2\right)$$

D)

$$\log \left(\frac{3}{(x + 1)^2} \right)$$

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Answer: D

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